

Application S/N: 10/099,623  
Atty Docket No. 1014-15

Date of Response: June 17, 2005

### AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-53 (withdrawn)

Claim 54. (currently amended) A method for fabricating a fiber grating structure from an optical fiber having a central longitudinal axis, comprising the step of:  
(a) imposing a chiral refractive index modulation along the central longitudinal axis of said optical fiber in one of a first and second configuration, wherein in said first configuration said optical fiber is formed into a chiral structure having a first pitch and a period, wherein said first pitch is twice said period, and wherein in said second configuration said optical fiber is formed into a chiral structure having a second pitch and a period, wherein said second pitch is substantially equal to said period.

Claim 55. (currently amended) The fabrication method of claim 54, wherein the optical fiber comprises a first end and a second end, and wherein said step (a) comprises the steps of:

- (b) retaining said first end of said optical fiber;
- (c) retaining said second end of said optical fiber;
- (d) imposing said chiral refractive index modulation in one of said first and second configurations on said optical fiber, between said first end and said second end, to form said optical fiber into a chiral fiber grating.